

## DRAFT TECHNICAL MEMORANDUM

**DATE** May 30, 2019 **Project No.** 913-1101-020.001

TO Jason Maughan

Bayer Soda Springs Plant c/o P4 Production LLC

CC Jessica Busey

FROM Michael Klisch and David Banton EMAIL dbanton@golder.com

## WORK PLAN FOR SOIL SAMPLING ON DECISION UNIT 17 PARCEL

This technical memorandum provides a brief Work Plan for soil sampling on the Decision Unit (DU) 17 parcel located west of the Bayer Soda Springs, Idaho Plant (Plant; Figure 1). The parcel (Caribou County parcel number 08S42E306001) is 76.11 acres and owned by Tami Cole. The parcel is located within the Institutional Control boundary. The soil sampling is being completed at the request of the property owner after dust was observed on snow on the parcel. The parcel has been sampled as part of Five-Year Review soil evaluations, with the last sample collected in 2017.

The soil sampling will be completed using the Incremental Sample Methodology (ISM) and associated sampling and analytical methods described in the Work Plan for soil sampling developed for the 2017 Five-Year Review<sup>1</sup>. Fifty increments will be collected from the DU. The locations of each increment will be determined using the methods described in the Work Plan. The coordinates of each increment will be uploaded to a Global Positioning System (GPS). The GPS will be used to locate each increment in the field. If a sample cannot be collected at the increment location, the procedure described in the Work Plan will be used to identify a replacement increment location. The replacement increment location(s) will be documented in the field notes.

The samples will be collected from the upper 0 to 1-inch depth using a Cold Regions Research and Engineering Laboratory (CRREL) coring tool. The sample collected at each increment location will be placed in a zippered plastic bag which will contain all increments for the DU 17 sample. Once all increments have been collected, the entire sample will be double bagged and labeled for shipment to the analytical laboratory (Test America Inc.) under chain of custody.

The analytical laboratory will prepare the sample under ISM procedures described in the 2017 Work Plan and the sample will be analyzed for radium-226. A brief technical memorandum will be prepared documenting the sampling procedures and analytical results, and comparing the analytical results with previous soil sampling results completed as part of the 2012 and 2017 Five Year Reviews when similar sampling and analysis methods were used.

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<sup>1</sup> Golder Associates Inc. 2017. Work Plan for Off-site Soil and Sediment Sampling, Fourth CERLA Five-Year Review, Monsanto Soda Springs, Idaho Plant, Soda Springs, Idaho. June 9.

## **Golder Associates Inc.**

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David Banton, LHG, RG Principal Hydrogeologist

## **FIGURES**

Figure 1: Location of Decision Unit 17 Parcel

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